Report to the Auburn City Council

Action Item
Agenda Item No.

City Manager Approval

To:	Mayor and City Council Members
From:	Bernie Schroeder, Director of Public Works
By:	Carie Huff, Associate Civil Engineer
Date:	March 14, 2011
Subject:	Palm Avenue Sidewalk and Bicycle Lane Project – Conceptual Alignments and Phase 2 of the Design

The Issue

Shall the City Council select the preferred design for the Palm Avenue Sidewalk and Bicycle Lane Project and approve an amendment to the consultant agreement with Coastland Civil Engineering, Inc. for Phase 2 of engineering design services for the Palm Avenue Sidewalk and Bicycle Lane Project?

Conclusion and Recommendation

Staff recommends that the City Council:

1. By **MOTION,** select Option 1 as the preferred design alternative for the Palm Avenue Sidewalk and Bicycle Lane Project.
2. By **RESOLUTION,** authorize the Director of Public Works to execute an amendment to the consultant agreement with Coastland Civil Engineering, Inc. for Phase 2 of engineering design services for the Palm Avenue Sidewalk and Bicycle Lane Project in an amount not to exceed $50,081.00.

Background

In January 2007 the City of Auburn applied for a Safe Routes to School grant through the California Department of Transportation. The City was awarded the grant in June 2007 for $696,955 to be used for a 5-foot sidewalk along one side of Palm Avenue, 5-foot bike lanes along both sides of Palm Avenue and associated roadway improvements between Nevada Street and Highway 49. Funding for the project was split between preliminary engineering at $65,000, right of way at $25,000 and $606,955 for construction.

On May 24, 2010 City Council authorized Coastland Engineering to proceed with survey, utility research, arborist survey, geotechnical engineering and conceptual design to 30%. The conceptual design has been completed and resulted in three options:

Option 1 – $785,000:
Option 1 includes sidewalk on the south side of Palm Avenue. There would be minimal need for engineered fill and/or retaining walls on the south side of Palm Avenue due to hillside excavation on the north side. The excavation on the north side of Palm Avenue will facilitate safe site distance around the S-curve. Pedestrians will not be required to cross Palm Avenue at a mid-block cross

walk which will also assist with traffic flow. Existing driveways along the south side of Palm Avenue will not require extensive grading. However, it is anticipated that up to four utility poles will have to be relocated and there will be extensive grading at the driveways on the north side of Palm Avenue.

Option 2 – $1,041,500:
Option 2 includes sidewalk on the south side of Palm Avenue similar to Option 1, but includes significant retaining walls and/or engineered fill on the south side of Palm Avenue to reduce the amount of excavation on the north side of the street. With the sidewalk on the south side of Palm Avenue, substantial grading for driveways will be required on both sides of Palm Avenue. Additionally, up to eleven utility poles will be required to be relocated. Pedestrians will not be required to cross Palm Avenue at a mid-block cross walk which will also assist with traffic flow.

Option 3 – $760,250:
Option 3 includes sidewalk on the north side of Palm Avenue. Option 3 requires a minimal amount of retaining walls and/or engineered fill on the south side of Palm Avenue. Grading and modifications for existing residential driveways will be minimal. However, pedestrians will be required to cross Palm Avenue at a mid-block cross walk which will also disrupt traffic on Palm Avenue. Extensive hillside excavation will be required on the north side of Palm Avenue as well as for the existing driveways. It is anticipated that up to six utility poles will be required to be relocated.

Staff Recommendation:
Although Option 3 (sidewalk on the north side of Palm Avenue) is the least expensive, it is not ideal from a safety and traffic perspective due to pedestrian crossing of Palm Avenue. Therefore, considering safety and cost, Option 1 is the preferred alternative. City staff has met and discussed the project with the majority of property owners along Palm Avenue and they have indicated potential issues about the project. Driveways are a major concern as well as access to the nursery during construction. Access to the nursery will be maintained during construction and will be specifically defined in the bid documents. Also, it is anticipated that several existing issues regarding the driveways will actually be corrected during construction. The property owners have indicated their willingness to work with the City in preliminary discussions which would reduce right-of-way issues. With direction from City Council, Coastland Civil Engineering, Inc. will begin Phase 2 of the final design for the alternative selected. Once the plans are complete, staff will bring the project back to City Council for permission to advertise.

Alternatives Available to Council; Implications of Alternatives

1. Select the staff recommendations.
2. Do not proceed with staff recommendation.

Fiscal Impact

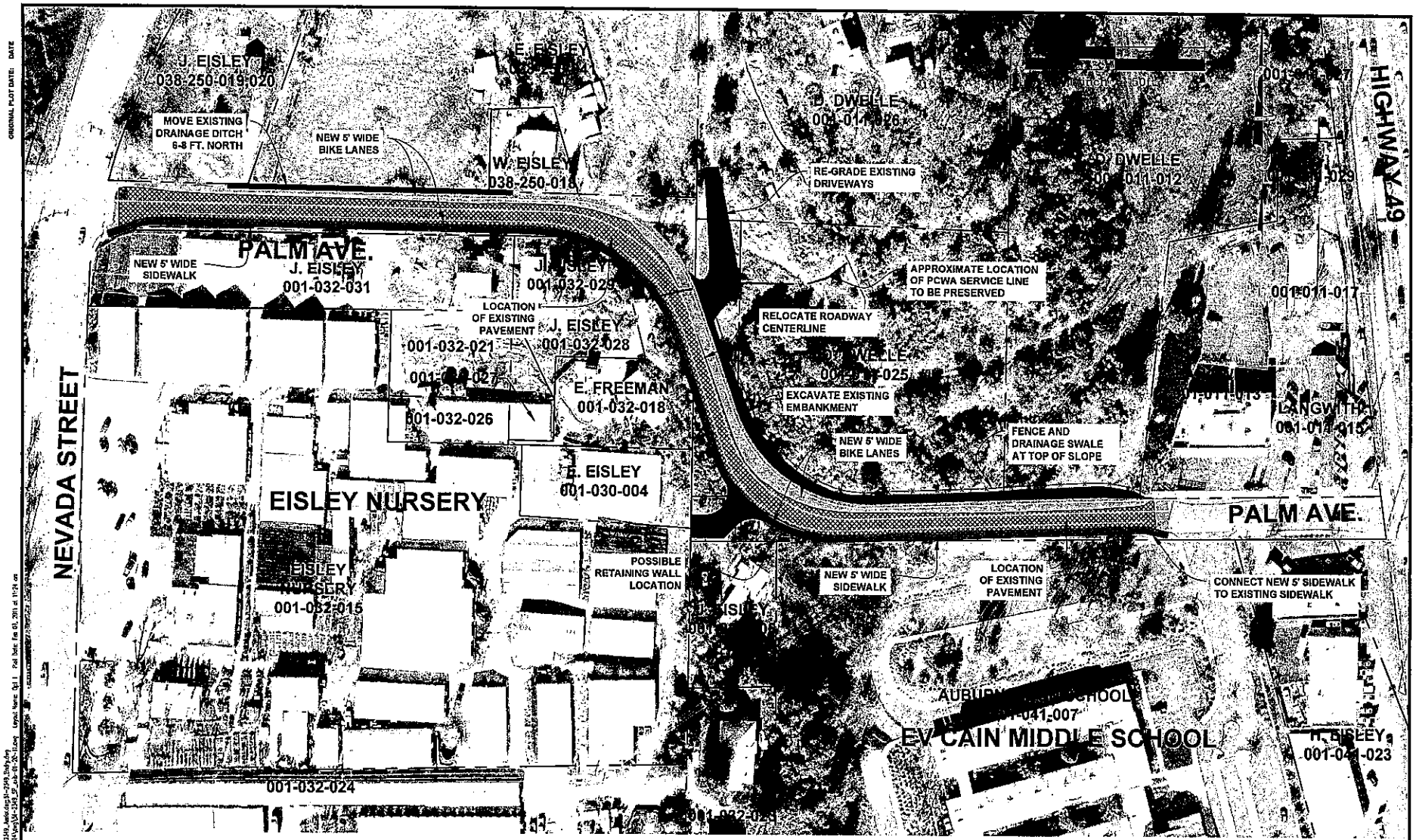
Funding for this project is federal funds that are administered by the State of California Department of Transportation under the Federal Safe Routes to School program as well as Congestion Mitigation Air Quality (CMAQ) funding. Following is a breakdown of the funding:

CMAQ – Congestion Mitigation Air Quality	**$102,033**
City of Auburn CMAQ Match (11.47%)	**$15,693**
Federal Safe Routes to School Program	**$696,955**
City of Auburn Safe Routes to School Match (10%)	**$69,695**
Total	**$884,376**

The City of Auburn has been authorized to invoice $65,000 for preliminary engineering design services, of which $49,452 has been utilized for the 30% conceptual design alternatives. Phase 2 of Coastland Civil Engineering's work estimate is $50,081. The City of Auburn matching funds requirement is $85,388. It is anticipated that these funds will be allocated from the Transportation Fund. City staff anticipates a Program Supplement for additional construction funds once the design is complete and the engineer's estimate is finalized.

Attachments:

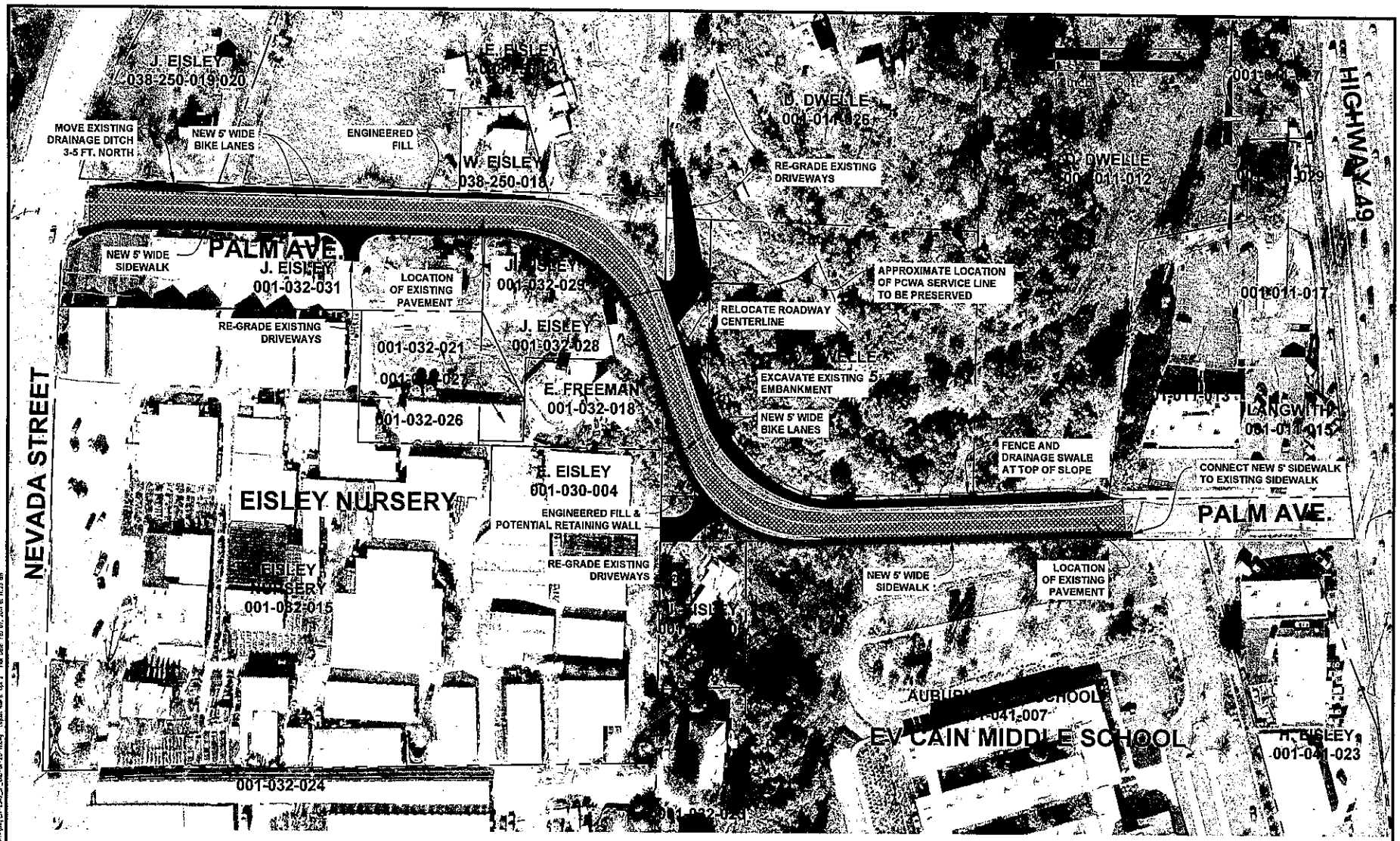
Palm Avenue Sidewalk and Bicycle Lane – Option 1
Palm Avenue Sidewalk and Bicycle Lane – Option 2
Palm Avenue Sidewalk and Bicycle Lane – Option 3
Palm Avenue Sidewalk and Bicycle Lane – Options 1 through 3 Cross Sections
Resolution
Amendment to the Coastland Civil Engineering, Inc. Consultant Agreement



NOTE:
EXTENTS OF PROPOSED IMPROVEMENTS SHOWN ON THIS PLAN ARE APPROXIMATE ONLY.
ACTUAL LIMITS TO BE DETERMINED DURING FINAL DESIGN.

Coastland Civil Engineering, Inc.
11810 Kemper Road, Auburn, CA 95603
530.888.9629 530.888.9979 Fax

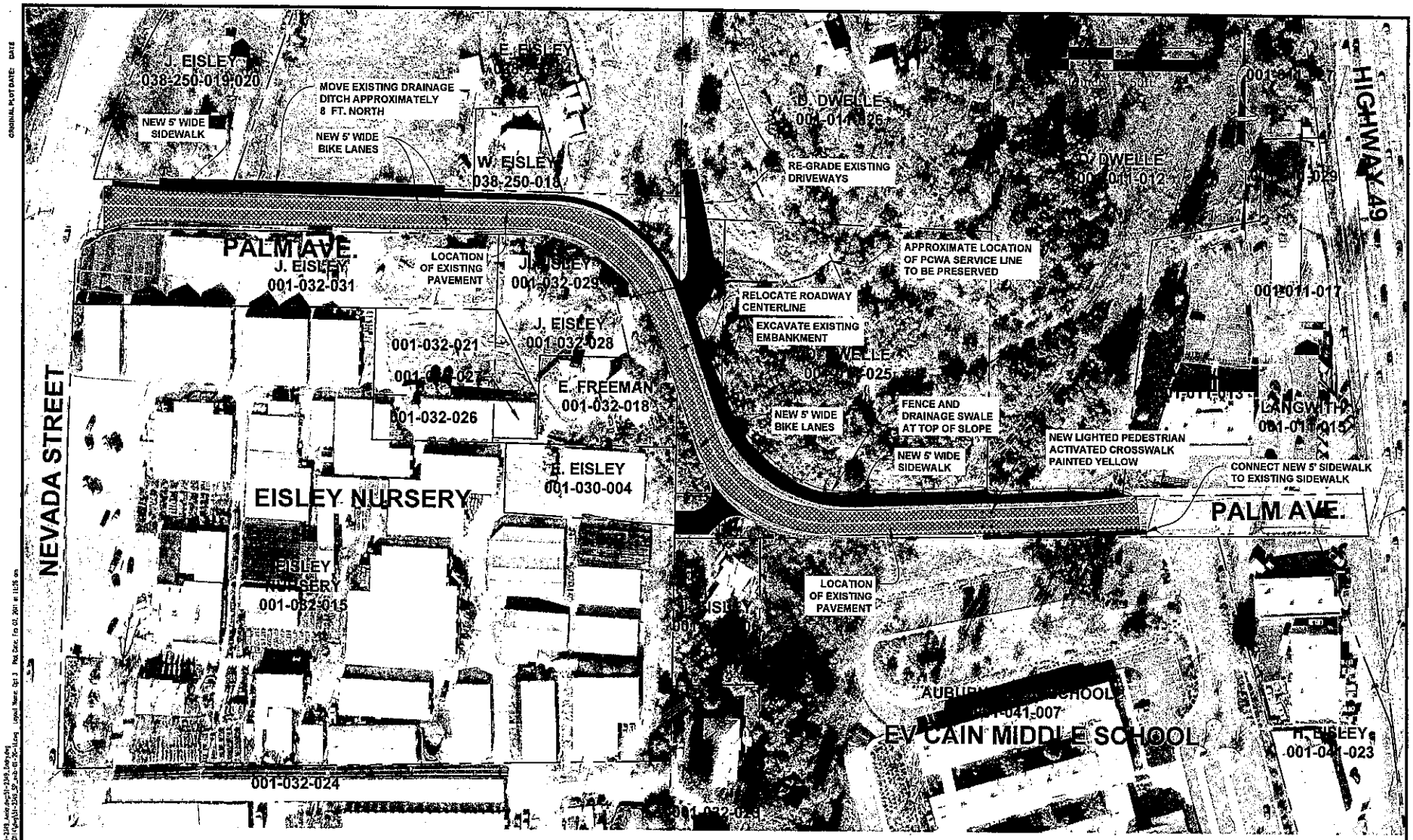
CITY OF AUBURN
PALM AVENUE SAFE ROUTES TO SCHOOL SIDEWALK & BIKE LANE PROJECT
OPTION 1



NOTE:
EXTENTS OF PROPOSED IMPROVEMENTS SHOWN ON THIS PLAN ARE APPROXIMATE ONLY.
ACTUAL LIMITS TO BE DETERMINED DURING FINAL DESIGN.

Coastland Civil Engineering, Inc.
11810 Kemper Road, Auburn, CA 95603
530.888.9929 530.889.9979 Fax

CITY OF AUBURN
PALM AVENUE SAFE ROUTES TO SCHOOL
SIDEWALK & BIKE LANE PROJECT
OPTION 2

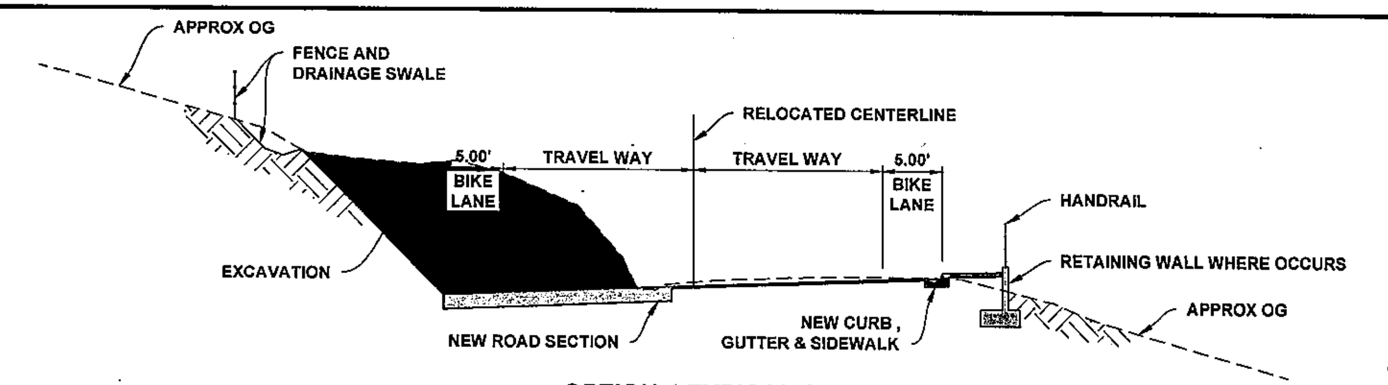


NOTE:
EXTENTS OF PROPOSED IMPROVEMENTS SHOWN ON THIS PLAN ARE APPROXIMATE ONLY. ACTUAL LIMITS TO BE DETERMINED DURING FINAL DESIGN.

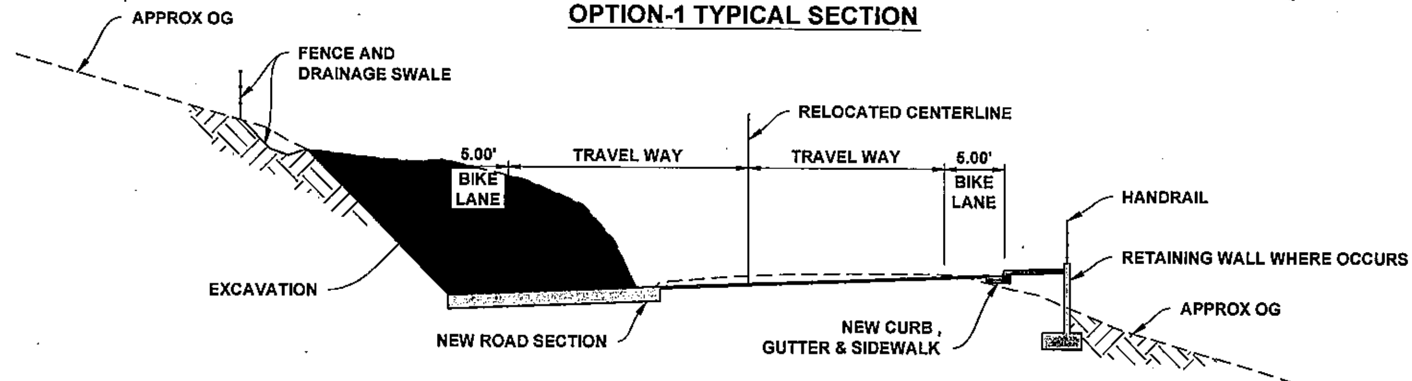
Coastland Civil Engineering, Inc.
11610 Kemper Road, Auburn, CA 95603
530.888.9929 530.889.9979 Fax

CITY OF AUBURN

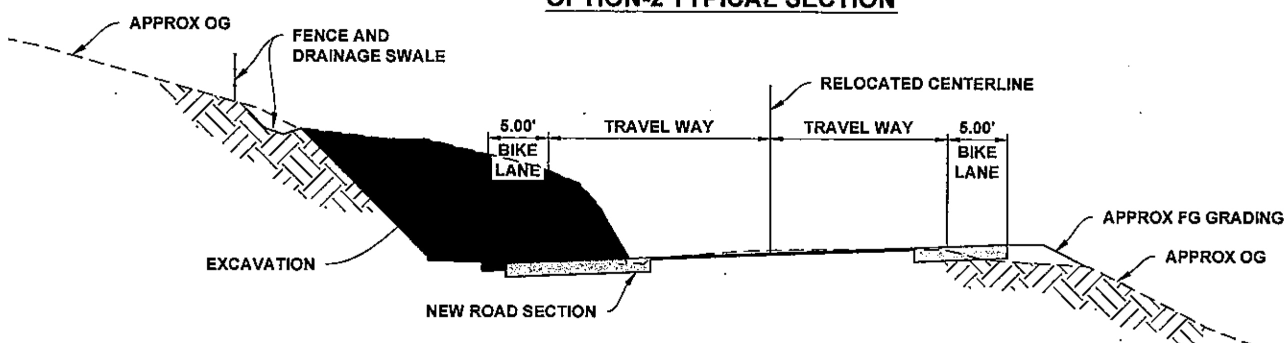
PALM AVENUE SAFE ROUTES TO SCHOOL SIDEWALK & BIKE LANE PROJECT OPTION 3



OPTION-1 TYPICAL SECTION



OPTION-2 TYPICAL SECTION



OPTION-3 TYPICAL SECTION

Coastland Civil Engineering, Inc.
11810 Kemper Road, Auburn, CA 95603
530.888.9929 530.889.9979 Fax

NOTE:
EXTENTS OF PROPOSED IMPROVEMENTS SHOWN ON THIS PLAN ARE APPROXIMATE ONLY. ACTUAL LIMITS TO BE DETERMINED DURING FINAL DESIGN.

CITY OF AUBURN
PALM AVENUE SAFE ROUTES TO SCHOOL
SIDEWALK & BIKE LANE PROJECT
TYPICAL SECTIONS

RESOLUTION NO. 11-

RESOLUTION AUTHORIZING AN AMENDMENT TO THE CONSULTANT AGREEMENT WITH COASTLAND CIVIL ENGINEERING, INC. FOR ENGINEERING SERVICES FOR THE PALM AVENUE SIDEWALK AND BICYCLE LANE PROJECT

THE CITY COUNCIL OF THE CITY OF AUBURN DOES HEREBY RESOLVE:

That the City Council of the City of Auburn does hereby authorize the Director of Public Works to execute an amendment to the consultant agreement with Coastland Civil Engineering, Inc. for Phase 2 of engineering design services for the Palm Avenue Sidewalk and Bicycle Lane Project in an amount not to exceed $50,081.

A true and correct copy of said amendment to the Consultant Agreement is attached hereto as Exhibit "A."

DATED: March 14, 2011

_____
William W. Kirby, M.D., Chair

ATTEST:

_____
Joseph G. R. Labrie, City Clerk

I, Joseph G. R. Labrie, City Clerk of the City of Auburn, hereby certify that the foregoing resolution was duly passed at a regular session meeting of the City Council of the City of Auburn held on the 14th day of March 2011 by the following vote on roll call:

Ayes:
Noes:
Absent:

_____
Joseph G. R. Labrie, City Clerk

AMENDMENT No. 1 TO PROFESSIONAL SERVICES AGREEMENT
(City of Auburn and Coastland Civil Engineering, Inc.)

This Amendment No. 1 ("Amendment") to Professional Services Agreement ("Agreement") is made on this 14th day of March at Auburn, California, by and between the City of Auburn, a municipal corporation, 1225 Lincoln Way, Auburn, California 95603 ("City") and Coastland Civil Engineering, Inc.,11810 Kemper Road, Auburn, CA 95603 ("Contractor").

This "Amendment" modifies the original "Agreement" between the "City" and the "Contractor" dated May 10, 2010 in the following fashion:

- A. "City" and "Contractor" desire to amend the "Agreement" by modifying section 3.1 – Scope of Services as set forth in "Consultant's" March 9th, 2011 proposal to "City" attached hereto as Exhibit A-1 and incorporated herein by this reference.

- B. "City" and "Contractor" desire to amend the "Agreement" by modifying section 3.2 – Approved Fee Schedule as set forth in "Consultant's" July 1st, 2010 to December 31st, 2011 fee schedule to "City" attached hereto as Exhibit B-1 and incorporated herein by this reference.

- C. "City" and "Contractor" desire to amend the "Agreement" by modifying section 3.4 – Expiration Date of the "Agreement" to read as follows:

  3.3 "Expiration Date": December 31st, 2012.

- D. "City" and "Contractor" desire to amend the "Agreement" by modifying the total compensation and costs payable to "Consultant" under this "Agreement" to a not-to-exceed sum of $99,533.00.

TO EFFECTUATE THIS AGREEMENT, the parties have caused their duly authorized representatives to execute this Agreement on the dates set forth below.

"City"
City of Auburn

By: _____
Bernie Schroeder
Director of Public Works

Date: _____

"Consultant"
Coastland Civil Engineering, Inc.

By: _____
Joseph Machado
Principal Designer

Date: _____

By: _____
Scott Reynolds
Principal

Date: _____

Attest:

By: _____
Amy Lind, City Clerk

Date: _____

Approved as to form:

By: _____
Michael G. Colantuono, City Attorney

PROPOSAL TO PROVIDE PROFESSIONAL ENGINEERING SERVICES FOR:

PALM AVENUE SIDEWALK & BICYCLE LANE PROJECT

PHASE II

CITY OF AUBURN

(REVISED MARCH 9, 2011)

COASTLAND

Civil Engineering - Construction Management- Building Department Services

COASTLAND

TABLE OF CONTENTS

This proposal has been revised to include the design work for Phase 2 only.

COMPANY PROFILE

INTRODUCTION

Coastland Civil Engineering (Coastland) provides civil engineering, construction, and building department services to clients that span across Northern California. Since our inception in 1991, our projects have encompassed a wide variety of transportation, drainage, water, wastewater projects, financing assistance, and general municipal engineering for cities and counties. Coastland provides services exclusively to public agencies, with the major focus on the design and construction of public works' facilities.

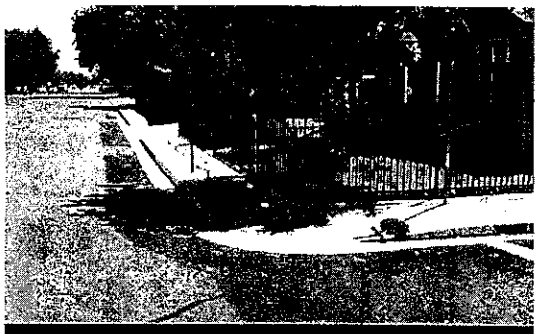
Coastland has earned the reputation of providing timely and cost-effective services to public agencies for more than 17 years. Coastland's reputation is founded on providing seamless quality service through good relationships with our clients. We achieve project goals through effective communication and a thorough understanding of our clients' needs. Our highest goal is to remain responsive to our clients by managing our time wisely so that we can meet scheduling and budgeting constraints.

Our highest goal is to remain responsive to our clients by managing our time wisely so that we can meet scheduling and budgeting constraints.

City of Napa
1st and 2nd Streets Streetscape

Our exceptional service involves a hands-on and personal relationship approach, coupled with the insight and experience from performing municipal services. As testimony to the quality of our work, we count over 55 cities, counties and special districts as repeat clients. Furthermore, most of our new clients were gained through referrals from other satisfied clients.

Coastland supplies the level of professional experience required to provide consistently efficient and cost-effective services to our clients. Coastland is able to bring cities a high level of expertise for a wide range of projects and services. Coastland has extensive experience providing in-house contract City Engineering services for small to mid-size cities, capital improvement design, construction management and inspection, pavement management and assessment districts. Our public works design and construction management experience includes streets, sidewalks, bikeways, pathways, curb ramps, parking lots, bridges / retaining walls, parks, airports, flood control and drainage facilities, pump stations, water tanks, sanitary sewer systems, and a variety of other municipal projects.



Yuba City
Consolidated Sidewalk Project

Coastland places a high priority on ensuring our clients receive superior and timely service. For every project, we designate a quality control engineer who is responsible for meeting the goals and objectives of the client's project by regularly monitoring project progress. Our quality control engineer is responsible for keeping the client informed as to the progress, quality, and costs of the project. Through a management style focused on consistent communication and quality control / quality assurance, we are able to deliver well designed projects on-time and within budget.

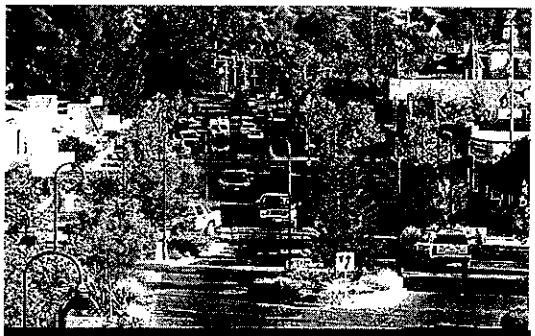
Through a management style focused on consistent communication and quality control, we are able to deliver well designed projects on-time and within budget.

CIVIL ENGINEERING

Civil Engineering has been the core of our business since our inception in 1991. Our Civil Engineering staff consists of registered civil engineers, engineers with EIT certificates, engineering technicians and LEED accredited professionals. Our staff is capable of providing a wide range of services from the conceptual studies through construction. Through collaboration with our clients, experience and attentiveness to the needs of the local community, we are able to provide creative and reliable design solutions.

Representative Civil Engineering projects include:

- Design of Street, Roadway, Sidewalk, and Curb Ramps
- Bikeway and Pedestrian Improvements
- ADA Compliance Evaluations and Transition Plans
- City-wide 5-year CIP
- Pavement Management Programs (PMP)
- Retaining Wall and Bridge Design
- Master Plans and Feasibility Studies
- Water and Wastewater Systems
- Flood Control and Drainage
- Design of Parks and other Recreational Facilities
- In-House Engineering Support



City of Cloverdale
Cloverdale Downtown Redesign

CONSTRUCTION SERVICES

Coastland also offers construction management and construction inspection services for our clients. Our seasoned construction management staff consists of licensed engineers, construction managers, resident engineers and construction inspectors. They are knowledgeable and sensitive to local issues, environmental requirements, governmental regulations, public relations, property owner concerns, and local and State standards. Our staff is experienced in bid and construction phase services, value engineering, constructability review, cost analysis and control, scheduling, and claims management services. Our construction managers apply their vast experience to ensure timely and cost-efficient project delivery.

Representative Construction Management / Inspection projects include:

- Street, Roadway, Sidewalk and Curb Ramp Construction
- Bikeway and Pedestrian Improvements
- Pavement Rehabilitation
- Water and Wastewater Systems
- Highway Interchanges
- Bridges
- Parks
- Flood Control and Drainage

County of Amador
Latrobe Road Safety Improvements

We invite you to learn more about Coastland by visiting our website: www.coastlandcivil.com.

PROJECT UNDERSTANDING AND APPROACH

BACKGROUND

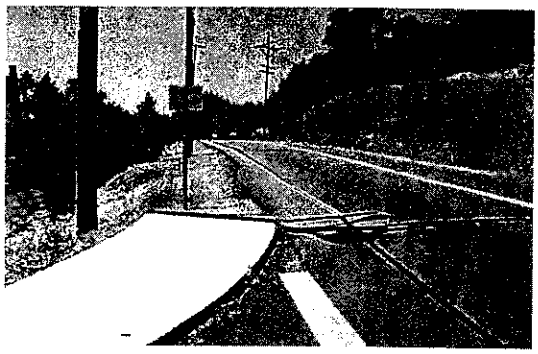
The Palm Avenue Sidewalk and Bicycle Lane Project was recently approved for funding through the Safe Routes to School ("SRTS") federally-legislated program under SAFETEA-LU (the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users). The principal goal of this project is to provide a safe and accessible route for pedestrians and bicyclists between the E.V. Cain School and the adjoining neighborhoods. The project will also promote bicycling and walking to school as a safe and feasible transportation alternative, reduce traffic congestion, and improve overall community safety. A secondary benefit of vehicular safety may be realized by improved vehicle sight distance through the sharp s-curve in the middle of the project.

To serve these purposes, the City of Auburn is moving forward with the Palm Avenue Sidewalk and Bicycle Lane Project. We understand that the project will provide a sidewalk on one side of Palm Avenue to connect to the existing pedestrian ramps at Highway 49 and at Nevada Street. In addition, Class II bike lanes will be constructed along both sides of Palm Avenue between at Highway 49 and at Nevada Street. The project will also include the installation of a flashing beacon on both sides of the school frontage. The City has yet to make a determination on which side of Palm Avenue the sidewalk will be constructed.

The project is funded with $696,955 from the 2007/2008 SRTS program (Cycle 1) and the City desires to construct the sidewalk and bicycle lanes as soon as possible. Funding is administered by the Caltrans Office of Local Assistance-District 3.

The City will retain the services of an engineering consultant to:

- Collect, research, and evaluate all available data and information necessary to prepare the design.
- Evaluate the existing project site for potential opportunities and constraints.
- Prepare necessary drafts of the plans, specifications, and cost estimates (PS&E) available for the City's review.
- Provide necessary revisions to the PS&E based on the City's review and comments.



CHALLENGES AND OPPORTUNITIES

Based on our site visits and discussions with City staff, we realize there are substantial challenges to accomplishing the project. We see the following potential challenges to the project:

- Steeply sloping terrain that will involve retaining walls.
- A "gap" in the road right-of-way.
- Uncertainty regarding property and right-of-way boundaries.
- Utility conflicts (transmission and distribution facilities).
- Impacts to school traffic (vehicular, pedestrian & bus).
- Substandard stopping sight distance along steep cut slopes in s-curve.
- Conforming to existing steep driveways.
- Impacts to and relocation of private property/improvements.
- Impacts to oaks and privately owned landscaping.
- Public relations with E.V. Cain School staff, parents and students.

To overcome these challenges we have performed field reviews to identify and clearly understand all constraints and limitations.

SCOPE OF SERVICES

The City of Auburn Public Works desires to design a sidewalk and bikeway with the funds available to provide increased accessibility connecting the E.V. Cain School and surrounding neighborhoods.

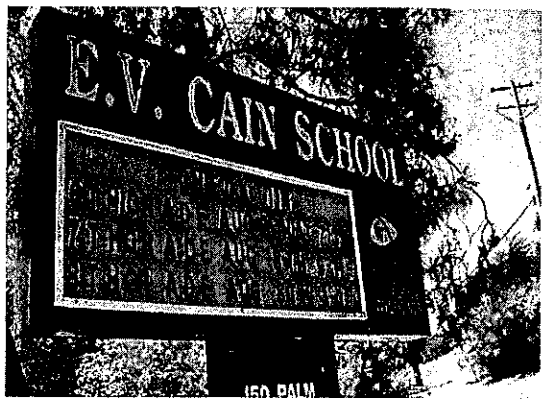
Coastland understands that clear communication and managing time wisely are keys to getting the most mileage out of available funds. At the City's request, we have modified the Scope of Work and the Work Estimate to focus on the final remaining Phase 2 portion of the project.

As part of **Phase 1,** Coastland has obtained the required information to develop 3 conceptual alignment alternatives. The City has been given exhibits and an opinion of probable costs for each alternative. A field survey and a topographical map, an arborist review, and a geotechnical engineering study have also been completed. Once a conceptual alignment is accepted by the City, **Phase 2** of the project will be ready to commence.

Phase 2 will consist of using the approved conceptual design, developed in Phase 1, to produce complete plans, specifications, and estimate suitable for bidding.

Together, our team will provide a cost-effective approach to this project by anticipating any problems early on and resolving them in an efficient and responsive manner.

We have prepared the following revised scope of work based on our two meetings with the City and our understanding of the City's needs for this project:



PHASE 2

TASK 2.1 – PLATS AND LEGAL DESCRIPTIONS

Preparation of Plats and Legal Descriptions for dedications, vacations and easements will be necessary of the successful completion of the project. It would be prudent to monument the centerline of the established right-of-way for Palm Avenue and file a Record of Survey to document the final right-of-way.

Calculations will be performed to determine dimensions, prepare closure calculations and prepare Plat and Legal Description for the dedication of proposed easements or the proposed vacation of existing right-of-way.

Deliverables:

- Plats and legal descriptions (assumes six)

TASK 2.2 – 75% PS&E

Following the City's approval of the conceptual design, Coastland will prepare and provide a 75% PS&E submittal for City review according to the following:

- Coastland will prepare 75% complete plans and technical specifications engineering drawings including: typical cross sections; plan and profile views at a scale of 1"=20'; and details at 1"=10' minimum. The plans will include all existing features and proposed improvements including roadway and bike lane paving, sidewalks, flashing beacon, drainage and utilities.
- Prepare structural pavement section calculations.
- Prepare retaining wall calculations.
- Coastland will prepare the engineer's estimate, bid schedule and technical specifications in a format acceptable to the City.
- Develop phasing plan to address potential traffic, business/residential impacts.
- Our construction management department will perform a detailed constructability review.

The Plans shall include, but are not limited to, the following list of sheets:

a. *Title Sheet: A title sheet will be prepared in a format acceptable to both the City and Caltrans showing the project title, location, vicinity, and sheet index.*

b. *Notes & Abbreviations: Notes and abbreviations pertinent to plan sheets prepared by all of the team firms and provide a plan sheet showing this information. Caltrans standards and specifications shall be used and are available in Standard English units.*

c. *Layout Plans & Cross Sections: A layout plan will be prepared to present the horizontal alignments of the roadway and sidewalk improvements. The drawings will include construction limits; curve data for construction centerlines; general notes; datum/survey control; existing roadway and surface utility features; contours; proposed right-of-way; easements and property lines; pavement and hard feature dimensions; paving limits; cut and fill slope limits; retaining walls; drainage improvements; and delineation of the sidewalk. Drawings will be prepared of typical roadway cross sections based on the conceptual design. The drawings will include lane dimensions; right-of-way dimensions (existing and proposed); cut and fill slope notations; pavement layer types and depths; and curb type and location.*

d. *Site Preparation & Utility Plans: Site Preparation & Utility Plans will be prepared to show the necessary relocation, removal and demolition of existing public and private features in accordance with the approved conceptual design. In addition, Utility Plans will be prepared for the PS&E consistent with Caltrans standards showing all high and low risk utilities including overhead electrical, telephone and cable lines, as well as water, sewer, storm drain and gas facilities.*

e. *Signing & Striping: A signing and striping plan will be prepared indicating the post-construction signing and striping. The striping design will take into account the existing lanes and transitions outside the project area to ensure smooth traffic flow through the intersection.*

f. *Construction Details: Coastland will coordinate and prepare construction details related to roadway, drainage, and retaining wall construction using proven means, methods and materials. Details will be drawn to a suitable/readable scale and contain ample information to communicate the intent of the design.*

The PS&E shall be prepared in conformity with the latest edition of the following:

- City of Auburn Improvement Standards
- AASHTO A Policy on Geometric Design of Highways and Streets
- CA-MUTCD
- Caltrans Highway Design Manual
- Caltrans Traffic Manual
- Caltrans Standard Plans and Specifications
- Caltrans Standard Special Provisions
- Caltrans Signal and Lighting Design Guidelines
- Caltrans Policy on High and Low Risk Utilities
- Caltrans Ready to List Guide
- FHWA Roadside Design Guidelines
- FHWA Highway Drainage Guidelines

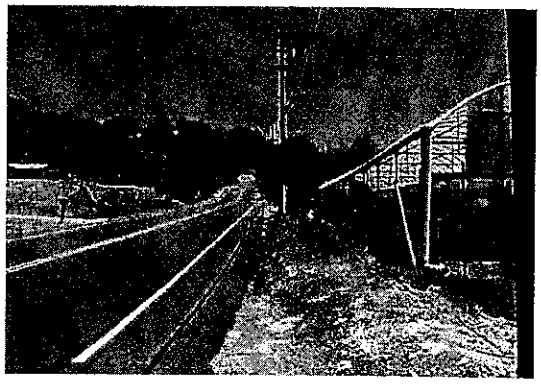
Also included in this task will be one meeting for design review. Written responses will be prepared to address City comments.

Deliverables:

- Three (3) sets of full size drawings and one set 11"x17".
- Technical specifications in Caltrans format.
- An opinion of probable construction costs.
- Structural (retaining wall) calculations.
- Written response to City comments.

TASK 2.3 – FINAL PS&E

The project design will be complete with this submittal. Following review of the 75% PS&E, Coastland will prepare and submit the final construction drawings and camera ready specifications with the California registered Civil Engineer stamp and seal for final review and signature approval by the City, ready to advertise for bids. All comments from the 75% submittal review will be addressed. Included is the itemized engineer's cost estimate of construction costs. An electronic copy of the drawings and specifications will also be submitted for City's files and use.



Also included in this task will be one meeting for project approval.

Deliverables:

- One (1) mylar original set of stamped and signed plans.
- One (1) camera ready set of stamped and signed specifications.
- One (1) opinion of probable construction costs.
- One (1) compact disk containing AutoCAD drawings, Word files and Excel files of the PS&E documents.

TASK 2.4 - PUBLIC OUTREACH

During the design development process, we will provide assistance to the City to answer any questions that may be asked by the community or City staff. While we don't anticipate much community opposition to the project, it seems prudent to keep stakeholders up to date on the City's plans and listen to ideas that stakeholders might have. This is especially true for the administrators, staff, parents and students of the E.V. Cain School.

We have assumed to attend one (1) community meeting as well as devoting a few hours for contact with other property owners.

Deliverables: None

EXCEPTIONS TO SCOPE OF WORK

The following work is not included in our proposal. However, if the City desires, Coastland would be happy to provide a scope and fee for these services:

- Construction management and inspection.
- Potholing of existing utilities.
- Title reports and Vesting Deeds.
- Meetings beyond those noted above.
- Right-of-Way acquisition services.
- Coordinating utility relocations.
- Obtaining utility easements
- Obtaining environmental permits, environmental mitigation and associated fees.
- Preparing California Environmental Quality Act Categorical Exemption (CEQA CatEx)
- Preparing National Environmental Policy Act Categorical Exclusion (NEPA CE)
- Street lighting design (other than for flashing beacon).
- Preparation of an Initial Study, MMRP, and EA/FONSI.
- Mechanical detection and surveys of existing underground utilities.
- Other items not specifically mentioned in the scope of service.

COASTLAND CIVIL ENGINEERING - WORK ESTIMATE PHASE 2 (REVISED 3/9/11)

Palm Avenue Sidewalk & Bicycle Lane	Proposal for Engineering Services	City of Auburn

Task Information		Billing Classification & Rate						Hour & Cost Information		
Task No.	Task Description	Principal Engineer	Supervis Engineer	Assoc. Engineer	CAD Designer	Const Manag	Clerical	Total Hours	Total Cost	Notes
		$175	$142	$100	$97	$142	$70			
PHASE 2										
2.1	**Plats and Legal Descriptions**									
	Plats and Legal Descriptions (assumes 6 total)								$5,520	Andregg
	Coordinate with Surveyor		1	2	1			4	$439	
	Subtotal							4	$5,959	
2.2	**75% PS&E**									
	Design Drawings	2	24	62	80			168	$17,718	
	Pavement Structural Sections		2	4	2			8	$878	
	Retaining Wall Design		20	22	4			46	$5,428	
	Technical Specifications		8	38			2	48	$5,076	
	Const. Cost Estimate		2	20	4			26	$2,672	
	QC Review / Value Engineering	2				2		4	$634	
	Progress Meeting		2	2			1	5	$554	
	Address Comments in Writing		2	2				4	$484	
	Subtotal							309	$33,444	
2.3	**Final PS&E**									
	Design Drawings		8	14	14			36	$3,894	
	Technical Specifications		2	4			2	8	$824	
	Const. Cost Estimate		2	6	2			10	$1,078	
	QC Review / Value Engineering	2				2		4	$634	
	Final Documents (mylars, sign, electronic files)		2	4	4			10	$1,072	
	Subtotal							68	$7,502	
2.4	**Public Outreach**									
	Community Meetings (1)		3	3	4			10	$1,114	
	Assist City-Coordinate with Property Owners		4		2			6	$762	
	Subtotal							16	$1,876	
	Miscellaneous Direct Costs								$1,300	Mileage, Photos, Reprographics
	PHASE 2 DESIGN TOTAL	6	82	183	117	4	5	397	$50,081	

PHASE 2 PROJECT TOTAL $50,081

ASSUMPTIONS:

1. Record right of way is sufficient to write new legals from and no right of way analysis or record of survey is required.
2. Assumes the project will qualify for a Programmatic Categorical Exclusion without technical studies as stated in the PES .
3. City will prepare the Cat Ex/CE documentation and submit to Caltrans.
4. Assumes widening will occur on north side of project only per Alternative 1.
5. Assumes 21 drawings in the PS&E package.

ADDITIONAL SERVICES:

	Estimated Cost
1. Historical & Archeological Surveys	$7,400
2. Right of Way Analysis	$11,500
3. Record of Survey	$8,600
4. Natural Environment Study	$2,314
5. Construction Staking	
6. Utility Coordination (PG&E, PCWA Relocation)	
7. Permitting	

EXHIBIT B-1

Coastland
Civil Engineering - Construction Management - Building Dept. Services

SCHEDULE OF HOURLY RATES
July 01, 2010 through December 31, 2012

PROFESSIONAL SERVICES

Principal Engineer	$165-205/hour
Supervising Engineer	$130-160/hour
Senior Engineer	$100-135/hour
Associate Engineer	$90-115/hour
Assistant Engineer	$80-100/hour
Junior Engineer	$70-85/hour
Principal Designer	$90-130/hour
Engineering Assistant	$90-115/hour
Senior Engineering Technician	$85-110/hour
Engineering Technician	$70-90/hour
Engineering Aide	$50-70/hour
Resident Engineer	$100-140/hour
Construction Manager	$100-135/hour
Construction Inspector*	$85-115/hour
Construction Administrator	$65-80/hour
Building Official	$110-135/hour
Building Plan Check Engineer	$100-135/hour
Building Inspector	$80-100/hour
Plans Examiner	$85-110/hour
Building Technician	$65-80/hour
CLERICAL	$50-70/hour
VEHICLE	$12-15/hour
MILEAGE	$0.65/mile**
OUTSIDE SERVICES	Cost + 15%
MATERIALS	Cost + 15%

- Computer time is included in the hourly rates used above.
- Consultation in connection with litigation and court appearances will be quoted separately.
- Additional billing classifications may be added to the above listing during the year as new positions are created.

* Includes services subject to prevailing wage.rates.

** Mileage rates are subject to change based on fuel cost increases